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UTILITY PATENT APPLICATION TRANSMITTAL <small>(Only for new nonprovisional applications under 37 CFR 1.53(b))</small>		Attorney Docket No. M4065.0675/P675	
		First Inventor John T. Moore	
		Title PCRAM CELL OPERATION METHOD TO CONTROL ON/OFF RESISTANCE VARIATION	
		Express Mail Label No.	

APPLICATION ELEMENTS See MPEP chapter 600 concerning utility patent application contents.	ADDRESS TO: MS Patent Application Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450
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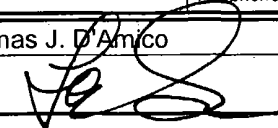
1. <input type="checkbox"/> Fee Transmittal Form (e.g., PTO/SB/17) <small>(Submit an original, and a duplicate for fee processing)</small> 2. <input type="checkbox"/> Applicant claims small entity status. <small>See 37 CFR 1.27.</small> 3. <input checked="" type="checkbox"/> Specification [Total Pages 52] <small>(preferred arrangement set forth below)</small> <ul style="list-style-type: none"> - Descriptive title of the invention - Cross Reference to Related Applications - Statement Regarding Fed sponsored R & D - Reference to sequence listing, a table, or a computer program listing appendix - Background of the Invention - Brief Summary of the Invention - Brief Description of the Drawings (if filed) - Detailed Description - Claim(s) - Abstract of the Disclosure 4. <input checked="" type="checkbox"/> Drawing(s) (35 U.S.C. 113) [Total Sheets 12] 5. Oath or Declaration [Total Sheets 3] a. <input checked="" type="checkbox"/> Newly executed (original or copy) b. <input type="checkbox"/> Copy from a prior application (37 CFR 1.63(d)) <small>(for continuation/divisional with Box 18 completed)</small> i. <input type="checkbox"/> DELETION OF INVENTOR(S) <small>Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).</small> 6. <input type="checkbox"/> Application Data Sheet. See 37 CFR 1.76	7. <input type="checkbox"/> CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix) 8. <input type="checkbox"/> Nucleotide and/or Amino Acid Sequence Submission <small>(if applicable, all necessary)</small> a. <input type="checkbox"/> Computer Readable Form (CRF) b. Specification Sequence Listing on: i. <input type="checkbox"/> CD-ROM or CD-R (2 copies); or ii. <input type="checkbox"/> Paper c. <input type="checkbox"/> Statements verifying identity of above copies ACCOMPANYING APPLICATIONS PARTS 9. <input checked="" type="checkbox"/> Assignment Papers (cover sheet & document(s)) 10. <input type="checkbox"/> 37 CFR 3.73(b) Statement <input checked="" type="checkbox"/> Power of Attorney <small>(when there is an assignee)</small> 11. <input type="checkbox"/> English Translation Document (if applicable) 12. <input type="checkbox"/> Information Disclosure Statement (IDS)/PTO-1449 <input type="checkbox"/> Copies of IDS Citations 13. <input type="checkbox"/> Preliminary Amendment 14. <input checked="" type="checkbox"/> Return Receipt Postcard (MPEP 503) <small>(Should be specifically itemized)</small> 15. <input type="checkbox"/> Certified Copy of Priority Document(s) <small>(if foreign priority is claimed)</small> 16. <input type="checkbox"/> Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). <small>Applicant must attach form PTO/SB/35 or its equivalent.</small> 17. <input type="checkbox"/> Other:
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18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in the first sentence of the specification following the title, or in an Application Data Sheet under 37 CFR 1.76:

☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No.: _____

Prior application information: Examiner _____ Art Unit: _____

For CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

19. CORRESPONDENCE ADDRESS			
<input checked="" type="checkbox"/> Customer Number or Bar Code Label	24998	or <input checked="" type="checkbox"/> Correspondence address below	
Name DICKSTEIN SHAPIRO MORIN & OSHINSKY LLP Thomas J. D'Amico			
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Name (Print/Type) Thomas J. D'Amico		Registration No. (Attorney/Agent) 28,371	
Signature 		Date June 25, 2003	

 17507 U.S. PTO
 10/602720
 06/25/03

01576 U.S. PTO
06/25/03

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FEE TRANSMITTAL for FY 2003 <small>Effective 01/01/2003, Patent fees are subject to annual revision.</small>		Complete if Known	
		Application Number	Not Yet Assigned
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27		Filing Date	June 25, 2003
		First Named Inventor	John T. Moore
		Examiner Name	Not Yet Assigned
TOTAL AMOUNT OF PAYMENT (\$)		2,410.00	Attorney Docket No. M4065.0675/P675
METHOD OF PAYMENT (check all that apply)		FEE CALCULATION (continued)	
<input type="checkbox"/> Check <input checked="" type="checkbox"/> Credit Card <input type="checkbox"/> Money Order <input type="checkbox"/> Other <input type="checkbox"/> None		3. ADDITIONAL FEES	
<input checked="" type="checkbox"/> Deposit Account		Large Entity Small Entity	
Deposit Account Number 04-1073		Fee Code Fee (\$)	
Deposit Account Name Dickstein Shapiro Morin & Oshinsky LLP		Fee Description Fee Paid	
The Director is hereby authorized to: (check all that apply)		1051 130 2051 65 Surcharge - late filing fee or oath	
<input type="checkbox"/> Charge fee(s) indicated below <input checked="" type="checkbox"/> Credit any overpayments		1052 50 2052 25 Surcharge - late provisional filing fee or cover sheet.	
<input checked="" type="checkbox"/> Charge any additional fee(s) during the pendency of this application		1053 130 1053 130 Non-English specification	
<input type="checkbox"/> Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.		1812 2,520 1812 2,520 For filing a request for ex parte reexamination	
FEE CALCULATION		1804 920* 1804 920* Requesting publication of SIR prior to Examiner action	
1. BASIC FILING FEE		1805 1,840* 1805 1,840* Requesting publication of SIR after Examiner action	
Large Entity Small Entity		1251 110 2251 55 Extension for reply within first month	
Fee Code Fee (\$)	Fee Code Fee (\$)	1252 410 2252 205 Extension for reply within second month	
1001 750 2001 375 Utility filing fee	750.00	1253 930 2253 465 Extension for reply within third month	
1002 330 2002 165 Design filing fee		1254 1,450 2254 725 Extension for reply within fourth month	
1003 520 2003 260 Plant filing fee		1255 1,970 2255 985 Extension for reply within fifth month	
1004 750 2004 375 Reissue filing fee		1401 320 2401 160 Notice of Appeal	
1005 160 2005 80 Provisional filing fee		1402 320 2402 160 Filing a brief in support of an appeal	
SUBTOTAL (1) (\$)		1403 280 2403 140 Request for oral hearing	
750.00		1451 1,510 1451 1,510 Petition to institute a public use proceeding	
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE		1452 110 2452 55 Petition to revive - unavoidable	
Total Claims 68 -20** = 48 x 18.00 = 864.00		1453 1,300 2453 650 Petition to revive - unintentional	
Independent Claims 12 -3** = 9 x 84.00 = 756.00		1501 1,300 2501 650 Utility issue fee (or reissue)	
Multiple Dependent		1502 470 2502 235 Design issue fee	
Large Entity Small Entity		1503 630 2503 315 Plant issue fee	
Fee Code Fee (\$)	Fee Code Fee (\$)	1460 130 1460 130 Petitions to the Commissioner	
1202 18 2202 9 Claims in excess of 20		1807 50 1807 50 Processing fee under 37 CFR 1.17(q)	
1201 84 2201 42 Independent claims in excess of 3		1806 180 1806 180 Submission of Information Disclosure Stmt	
1203 280 2203 140 Multiple dependent claim, if not paid		8021 40 8021 40 Recording each patent assignment per property (times number of properties)	
1204 84 2204 42 ** Reissue independent claims over original patent		1809 750 2809 375 Filing a submission after final rejection (37 CFR 1.129(a))	
1205 18 2205 9 ** Reissue claims in excess of 20 and over original patent		1810 750 2810 375 For each additional invention to be examined (37CFR 1.129(b))	
SUBTOTAL (2) (\$)		1801 750 2801 375 Request for Continued Examination (RCE)	
1,620.00		1802 900 1802 900 Request for expedited examination of a design application	
**or number previously paid, if greater; For Reissues, see above		Other fee (specify)	
SUBMITTED BY		Complete (if applicable)	
Name (Print/Type)	Thomas J. D'Amico	Registration No. (Attorney/Agent)	28,371 -
Signature		Telephone	(202) 828-2232
		Date	June 25, 2003